

UMass Lowell, Lowell Schools Make Education History with \$1M Grant

With a three-year \$1 million federal grant, UMass Lowell and Lowell Public Schools aim to ensure that the city noted for its rich industrial history is also noted for students who know that history.



▲ Students work at looms in the Tsongas Industrial History Center. The center, along with the University's Graduate School of Education and History Department, will work with the Lowell Public Schools to develop a professional development program for fifth- and eighth-grade history teachers, funded by a \$1 million U.S. Department of Education grant.

The U.S. Department of Education awarded the grant to the Lowell Public Schools, which will partner with the Tsongas Industrial History Center, UMass Lowell's Graduate School of Education and History Department, and the Lowell National Historic Park for a professional development program for Lowell's fifth- and eighth-grade history teachers.

"This is a grant that will help the Lowell School Department teach students the rich history of the area and the history of our country," said Congressman Marty Meehan in a recent Lowell Sun article. "It's an innovative partnership that will serve 100 teachers and as many as 10,000 students."

The comprehensive program consists of six key components: intensive summer institutes; mini-courses; *Teachers as Scholars* three-day seminars; mini-sabbaticals; an annual winter conference; and a communications and resource center. The Center for Field Services and Studies (CFSS) and the Tsongas Center will manage the project. History and American Studies departments faculty will serve as institute, mini-course and seminar leaders. UMass Lowell history majors and Graduate School of Education teachers-in-training will participate in project activities.

"The Lowell Public Schools and the Tsongas Center have a wonderful history of very effective partnerships," said Lowell School Superintendent Karla Brooks Baehr. "Our teachers and our students are sure to benefit from the first-rate professional development that the Tsongas Center

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Oh, the Weather in Space is Frightful, but the Data are so Delightful

Whether you tune in your television to the latest international sports event or climb into your new car and turn on the global positioning, you are connecting to a satellite somewhere "up there" in space.

Increasingly in modern life, we are dependent on space technology for important (or not-so-important) data and positioning information.

And space-based technology makes us very interested in space weather.

"Space weather combines solar radiation and disturbances on the sun that lead to magnetic disturbances on our earth system," says Prof. Bodo Reinisch of the Environmental, Earth and Atmospheric Sciences Department.

Space weather is huge: Coronal mass ejections, for example, are eruptions of gas and magnetic fields moving at millions of miles per hour that can cause problems for us surface dwellers. In 1989 a space storm caused a blackout across Quebec, and in 1998 another storm knocked out the satellite that carried most of the pager communications in the United States.

Reinisch, director of the Center for Atmospheric Research, has had a lifelong interest in the earth's outer atmosphere—the bands of ionosphere and magnetosphere that envelop the planet like a huge comet-shaped cloud and are bombarded by the solar wind.

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▲ Prof. Bodo Reinisch

College of Management Awarded \$2.4 Million Grant

The College of Management has received a \$2.4 million grant for a project that will introduce PeopleSoft into the curriculum of business courses such as finance, accounting, management and MIS.

One of the project's developers, Dr. Luvai Motiwalla, associate professor of MIS, explains that the project benefits both students and the University.

"Exposing students to PeopleSoft gives them valuable hands-on experience with real world enterprise management software.

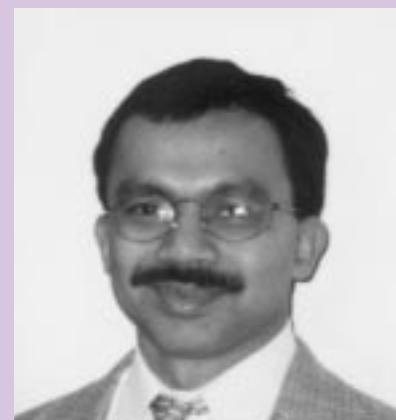
"The University benefits as well," Motiwalla continues, "by having a pool of students educated in PeopleSoft to choose from for part-time or full-time work duties."

Professor of MIS David Lewis, another of the project's developers, has already begun initiating the first academic module in classrooms, which includes a series of lectures followed by practical applications.

At the initial lecture, guest speaker Mark Conway, director of academic programs at PeopleSoft Corp., discussed the "global overview" of the product.

"The next step is hands-on application, having students successfully navigate the financial modules and create their own reports," Lewis says.

—KL



▲ Dr. Luvai Motiwalla

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Take Note

Taiwanese Acrobats Coming in November

The Shangri-La Acrobats from Taiwan, the next featured entertainers of the UMass Lowell Discovery Series, will give two performances Sunday, Nov. 17, at 2 and 4 p.m. in Durgin Hall.

The performance, similar to other Discovery Series events, is suitable for all family members and will run approximately one hour without intermission.

For more information or to order tickets, call the box office at ext. 4444, 10 a.m. to 3 p.m., Monday to Friday.

Lecture Series Kicks Off in Oct.

Upcoming events in the Moses Greeley Parker Lectures series include a performance by the Yale Whiffenpoofs, an a capella group, on Sunday, Oct. 27, and a Japanese Drumming Festival featuring the Burlington Taiko Group on Sunday, Nov. 3; both shows are free and begin at 2 p.m. at Lowell High School Auditorium. On Saturday, Nov. 2, at 2 p.m. at Lowell's Pollard Memorial Library, photographer and writer Susan Wilson will share stories and images from Mexico, where she documented the Day of the Dead festival. Robin Lane will present "In Her Own Voice: A Visit With Eleanor Roosevelt" on Nov. 16 at 2 p.m. at the library. The series is presented by the Moses Greeley Parker Lectures Committee, in cooperation with UMass Lowell, the City of Lowell, Pollard Memorial Library, Lowell High School and Lowell National Historical Park. For more information, call (978) 454-7979.

MRT Offers Special Theatre Package to Faculty, Staff

The Merrimack Repertory Theatre (MRT) will host a reception on Monday, Nov. 4, 5:30 to 7:30 p.m., to announce a special theatre and dining plan for University employees. The event, with free hors d'oeuvres and cash bar, will be held at Ricardo's Cafe Trattoria, 110 Gorham Street, Lowell. MRT Marketing Director Michael Gepner will provide details of a four-play theatre and dining subscription, which offers discounts for UMass Lowell faculty and staff. Space at the reception is limited to the first 100 people who respond. Interested persons should R.S.V.P. to marketing@merrimack-rep.org with their names and number of people in their parties.

Mixed Media and Sculpture Shows Continue through Nov. 6

Two exhibits—one of mixed media and the other of sculpture—are on display in the University's galleries through Nov. 6.

At the University Gallery in the McGauvran Student Center, New Hampshire artist Bonney Goldstein is showing mixed media on wood paintings. Through layers of colors and lush textures, her post-expressionistic works present a daily pictorial diary chronicling a year in the life of the artist.

Goldstein, who received here M.F.A. from Goddard College, is represented at galleries in Texas, Colorado and Nebraska as well as in New Hampshire.

The wood sculpture of Mark Heron, B.F.A. '98, is on display in the Dugan Gallery. A cabinetmaker by trade, Heron says, "I am constantly challenged by the compromise between form and function." While function comes first with cabinets, he says, "as an artist, I am able to explore a different agenda, whereby function is secondary..."

The University Gallery hours are Wednesday- through Friday, noon to 3 p.m. and Saturday 1 to 4 p.m. The Dugan Gallery hours are Monday through Thursday, 9 a.m. to 3 p.m.

University Community Invited to a 'Chancy' Banquet

All members of the University community are invited to the UMass Lowell Oxfam Hunger Banquet in the Leo King Room in Fox Hall on Thursday, Nov. 14, at which their dinner fare will be a matter of chance. There will be three seating areas — representing the higher, middle and low-income economies of the world—and diners will be assigned seats through a random lottery process. Each economic group will be fed accordingly.

The 5:30 p.m. event is an extension of the Hunger and Homeless month being observed throughout the Greater Lowell area. Tickets (\$3 for students, \$5 for all others) for the banquet are available at the Student Information Center on the North or South campus. All proceeds will be donated to charity.

The event is being hosted by two dozen students and sponsored by Mark Levine, chair of Community Service, and Rev. Imogene Stulken of the UMass Lowell Campus Ministry. Aramark has made a donation to the dinner.

'Keep Lowell Beautiful' Offers 2003 Calendars

The city's beautification and anti-litter activists, members of the Keep Lowell Beautiful organization, have produced a 2003 calendar of Lowell scenes. The calendar, priced at \$10, is available at the University's Barnes and Noble Downtown Bookstore and other locations downtown. All proceeds support KLB's programs, such as Riverwalk maintenance, education activities and the city's annual spring clean-up day. Mail orders can be sent to Keep Lowell Beautiful, P.O. Box 8625, Lowell, MA 01853 (add \$1 for shipping cost).

UMass System-Wide Conference Focuses on Sustainability

The University of Massachusetts and the Department of Academic Affairs in the UMass President's Office are holding a one day conference on sustainability. The conference, titled "Managing Massachusetts' Environment for the New Millennium: Highlighting the Capacity Within UMass," will provide a forum for the many faculty, staff, and students who are carrying out innovative research, teaching, and outreach on the environment, the community, and environmental-community interactions. Special guests from the Executive Office of Environmental Affairs (EOEA) will also attend.

The conference will be held on Friday, Nov. 15 at the UMass Worcester campus. This working meeting will identify opportunities for collaboration across campuses and with the EOEA. Working groups will be organized around four themes: Enhancing Education for Sustainability, Promoting Sustainability in Research and Technology Development, Building Sustainable Campuses and Supporting Social and Community Sustainability.

Information and registration are available on the Web site at www.umass.edu/sustainability.

Mogan Cultural Center Seeks Proposals

The Patrick J. Mogan Cultural Center of Lowell National Historical Park is seeking proposals from individuals and organizations for cultural heritage projects and programs that will be considered for funding. Proposals must relate to the mission of the center, which is to tell the story of Lowell's people through exhibits, events, and other cultural heritage projects linked to the park.

Among the programs and projects to be considered might be: temporary exhibits at the center or at other venues; cultural, artistic or ethnic fairs or festivals; lectures, readings or workshops; performances; youth programs; educational programs; documentation projects; historical research with a public component; and more.

Proposals will be reviewed competitively and acted upon by the center's Community Committee, with the approval of the National Park Service. Persons or organizations whose proposals are selected for funding and co-sponsorship will work closely with Park Service staff to ensure that their activities benefit the park and community.

To submit a proposal, send a one-page project description (250 to 400 words) and budget by December 31 to Mehmed Ali, Lowell National Historical Park, 67 Kirk Street, Lowell, MA 01852. Proposals and support materials will not be returned. The Mogan Cultural Center is a program of Lowell National Historical Park in partnership with UMass Lowell. For more information, please call (978) 275-1826.



Electric Cars, Now in Use on Campus, Are Driven by Professor's Research Grant

It looks like any other compact car. It drives a little quieter, and the acceleration from a standing start isn't quite what you'd hope. And there's apt to be some static from the radio when the engine is on. But it cruises comfortably at 60 mph, runs in much the same manner as a small Chevy (except that there are only two gears—forward and reverse—which are activated with a button), and has all the standard accessories. In fact, if you've ever driven a Geo, you'd be right at home in this car—the chassis and interior are the same.

Just don't open the hood if you're

expecting an engine—there isn't one. And don't plan on driving any farther than say, downtown Boston and back. And you won't want to forget, once you're done with the car for the day, to plug it in for the night.

You may have seen one around campus; there are several in use at UMass Lowell right now. And it's a little hard to miss them—"Electric Vehicle" is block-lettered prominently on the sides.

They are the project and brainchild of Electrical and Computer Engineering Prof. Ziyad Salameh,

who, backed by \$125,000 in grant money from the Massachusetts Department of Energy Resources—as well as additional research funds from Boston Edison and Mass. Electric—is working toward the long-term goal of replacing gas-driven cars with their electric counterparts.

The final goal is a long way off, Prof. Salameh concedes. And the last six cars arrived at the University only about a month ago, so it may be too soon to expect even any shorter-term results. But one or two things do seem clear.

First, at least from an environmental perspective, electric cars are close to ideal. They burn no gas, and make very little noise; about the only trace they leave is the same tire-rubber residue you would get from any other car on the road.

Next, they are probably not yet ready to compete with gas-driven autos from the standpoint of simple efficiency. Maintenance Foreman John Murphy, who has been responsible for one of them for the past month or so (he drives it 20 to 30 miles a day), notes that 60 amps of electricity—which, he says, translates to "just about 60 miles"—is all it can generate on a single charge. Once this power is exhausted, he says, "it would just die out on you—like a car that's run out of gas." (The charge

itself, Murphy says, is a simple enough matter: "You just plug the car into any 110-volt outlet, and leave it overnight.")

And finally, from an economic perspective, the electric car remains less than ideal. Its battery, which is relatively large and stored in the back of the vehicle (the generator is in front) costs roughly \$45,000, about as much as a mid-priced luxury car—which, given the electric car's other limitations, would seem far too much to pay.

But Prof. Salameh is working on all this. The first objective, he says, he says, will be to reduce the time it takes to charge the batteries—from several hours to 15 minutes or less. Once this is accomplished, the next stage will be the installation of "charging stations" at frequent intervals around the state. And then the final hurdle: a cheaper, more efficient battery.

"It will take time," he says. "Time and money, and lots of patience and research. But just imagine the result: a car that's quiet and cheap and efficient, and leaves the air clean for breathing—even in cities like Chicago and New York. Clean air and no pollution—it's a goal worth working for."



▲ Maintenance Foreman John Murphy, left, and Electrical and Computer Engineering Prof. Ziyad Salameh are shown here with other members of the physical plant shortly after the three electric cars, background, resulting from Prof. Salameh's research grant, arrived on campus this fall.

Geiser Speaks on New Directions in Health Promotion

A group of about 50 people, primarily faculty, staff and students from the College of Health Professions and the Department of Work Environment, gathered recently to hear Dr. Kenneth Geiser speak on "Pollution and Disease Prevention and Health Promotion: Making the Links." Geiser is a professor of Work Environment, Co-Director of the Lowell Center for Sustainable Production, and Director of the Massachusetts Toxics Use Reduction Institute.

This presentation was the first in a four-part series entitled "New Directions in Health Promotion." The series is sponsored by the Center For Public Health Research and Health Promotion, co-directed by Drs. Barbara Mawn and Craig Slatin, and the Center for Family, Work and Community, co-directed by Drs. Linda Silka and Joyce Gibson. The first seminar in the series was also co-sponsored by the Lowell Center for Sustainable Production.

Geiser outlined the evolution of

the pollution prevention and health promotion initiatives in the United States and Europe, touching on the commonality of goals and barriers in the two fields. Discussion among attendees explored the potential for research and collaboration in areas of shared concern, such as in the field of environmental health.



▲ The first presentation in a four-part series on New Directions in Health Promotion was given by Dr. Kenneth Geiser, third from left, director of the Toxics Use Reduction Institute. Those responsible for the series include, from left, Dr. Barbara Mawn, associate professor of nursing, Dr. Craig Slatin, assistant professor of Health and Clinical Lab Sciences, and Dr. Linda Silka, professor, Regional Economic and Social Development Department.

Gerontological Specialist Addresses Communication at Life's End

Dr. Marianne LaPorte Matzo, a gerontological nurse practitioner, spoke on campus on "The Professional Caregiver: Models for Communication at Life's End."

Matzo, a graduate of the University's master of science in gerontological nursing program, is a nationally recognized scholar in the field. Her textbook, *Palliative Care Nursing: Quality Care to the End of Life*, won an AJN Book of the Year Award for 2002. Her presentation focused on comparing and contrasting the professional caregiver's communication role in caring for those experiencing the birth process versus the dying process.

The program received support from the UMass Lowell Committee on Industrial Theory and Assessment, the Eta Omega Chapter of Sigma Theta Tau International, the Graduate Student Nurses Association, the Student Nurses Association, and the Office of the Dean of the College of Health Professions.



▲ Dr. May Futrell, left, chair of the Nursing Department, was one of dozens of practitioners, faculty, staff and students who attended a talk given by Dr. Marianne LaPorte Matzo, center. The event was organized by Dr. Karen Devereaux Melillo, right, professor of nursing, who is holding Matzo's recently-released book on palliative care.

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and others will be able to provide for our staff and from the high-quality teaching resources that will make our American history curriculum come alive for youngsters."

The goal of the program is to guarantee that teachers are ready to meet the 2008 challenge when the state will require students to pass an American history test to graduate. The professional development program will help teachers align their history curriculum with frameworks currently under development by the state. In initial testing, 96 percent of

Lowell's eighth-graders did not reach "proficient" status on the 2001 American history test.

"Part of the goal is to create a sustained partnership, and Lowell has demonstrated the value of that kind of community of partners over and over," said Peter O'Connell, director of the Tsongas Industrial History Center.

The project is in the start-up phase and is anticipated to begin during the 2003-2004 summer and school year.

—EK

Chancellor Hogan Schedules Open Meeting Hours

Chancellor William T. Hogan has announced his schedule of Open Meeting Hours for the remainder of the academic year.

The meetings, all of which will be held in the Trustees' Room in Cumnock Hall on the North Campus, are scheduled for Nov. 13, Dec. 11, Feb. 19, March 12 and April 16 from 2 to 5 p.m.

The first hour is reserved for staff members, followed by students and then faculty.

Campus Participation Makes Open House 2002 a Success

Open House 2002, held under gray skies on Sunday, Oct. 13, attracted nearly 1,500 people to the Tsongas Arena to sample the programs, activities and resources at UMass Lowell. Prospective students and their families started at the arena, where they were ushered in by the sounds of the marching band. They toured 60 exhibits, staffed with dozens of faculty, staff and students before boarding a bus to Fox Hall, the Campus Recreation Center, and North and South campuses for tours. In all, about 250 volunteers helped the event run smoothly and earned accolades from visitors for being "really nice."

"The campus-wide Open House is the most significant event of the undergraduate recruiting cycle," said Dr. Lisa Johnson, assistant vice chancellor for enrollment management. "I'm very grateful for the energy and time everyone puts into this day."



▲ Leading campus tours was a valuable role for nearly two dozen volunteers. Four of them are, from left, standing, Paul Marion, communications and marketing; Janet Sawyer, Office of Institutional Research; Hector Valdes, Office of Economic Development; and, seated, Esther Ofria, Office of Institutional Research. Donna Spellissy, Communications and Marketing, checked students and their families in at the Tsongas Center, and John Murphy, grounds supervisor, helped oversee facilities.

TURI's EMS Work Groups Celebrate Conclusion at Teradyne



▲ The Toxics Use Reduction Institute (TURI) sponsored two Environmental Management Systems Industry Peer Mentoring Work Groups. To celebrate the conclusion of the work group sessions, top executives from participating companies visited host company Teradyne including, front row from left, Julie Davis, Teradyne; Cathy O'Connell, Emerson & Cuming; Beth Wood, Cabot Corp; Mac Robinson, Athol Table & Manufacturing Company; back row, Tara Olsen, consultant; Ed Fontaine, Teradyne; Nancy Prominski, Boston Sand and Gravel; Keith Beasley, Massport; and Pamela Eliason, TURI.



▲ The Environmental Management Systems Industry Peer Mentoring Work Groups provide a forum for companies looking to implement an environmental management system (EMS). An EMS provides tools to help manage an organization's environmental impacts efficiently and effectively and to improve environmental stewardship across the entire organization. Members of the second work group, hosted by Gentex, were also present at Teradyne's final meeting, from left, Janet Clark, TURI; Paul Waterman, Rexam Image Products; Wayne Wycoff, Essilor of America; Bruce Weaver, Gentex Optics; and George Stamas, Gentex Optics. Not pictured, Chet Klinger of Essilor of America.

WEB UPDATE

Web Update: SGA Holds Online Elections

For the first time, elections for student government were held online. Students could vote over two days for class senators, secretary and treasurer. The Office of Student Activities anticipates a building momentum for online elections this spring with elections for student body president, vice president and student trustee.

The Web Office also designed and launched a Web site for the Practical Skills Development Institute, a new Criminal Justice Department. View the site at <http://www.uml.edu/psdi>.

Additionally, the Shuttle and the Alumni Magazine are available online through UML Today, the faculty and staff portal page, at <http://intranet.uml.edu>.

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Oh, the Weather in Space is Frightful, but the Data are so Delightful

For the first time, the magnetosphere is being explored and mapped, through the NASA mission called IMAGE, for Imager for Magnetosphere-to-Aurora Global Exploration, launched in the spring of 2000. The instrument that was developed in the Center, along with an international team of researchers, is known as the Radio Plasma Imager (RPI).

RPI uses low-frequency radio sounding to measure the constantly shifting dimensions and plasma concentrations of the magnetosphere. Since IMAGE was launched, researchers have received a constant stream of exciting results.

"The large number of scientific outputs in two years is really unbelievable," says Reinisch. "From RPI alone, we have 16 publications and many invited presentations at conferences."

The research team includes Dr. Xueqin Huang, senior research professor at the Center, who developed the mathematical tools to analyze the wave propagation phenomena that were encountered, and Ivan Galkin, doctoral candidate in computer science and a section head at the Center, whose novel space data visualization techniques

have been adopted by NASA and other university research teams.

The RPI instrument has measured the total global distribution of plasma—an empirical magnetospheric density model. The results have been surprising.

Unlike theoretical models based on snapshot information from satellites, IMAGE probes the total plasmasphere with remote sensing every 20 minutes, allowing a dynamic "look" at changes during periods of high magnetic activity resulting from solar storms. (The plasmasphere is the region of the magnetosphere in which the magnetic field lines are closed, curving down to Earth at the poles. The whole magnetosphere also includes the polar cap areas and a great tail streaming away into interplanetary space.)

"We asked ourselves, 'How does plasma density depend on magnetic activity?'" says Reinisch. "It varies dramatically—changing by a factor of five to 10—with more plasma during high magnetic activity. The plasmasphere is a dynamic entity, with plasma forced out during magnetic storms and then recovering and refilling."

Like any scientific advance, the IMAGE results are posing as many

new questions as old ones are being answered: "It is a playground for physicists," says Reinisch.

IMAGE has suffered from some space dangers. Cosmic rays hurt the electronics and stopped data collection, but the team had taken precautions to allow for resetting the instruments. Then one of the two 250-meter-long radio antennae was clipped by a micrometeorite, probably the size of a dust kernel, and the satellite started tumbling, potentially ruining the data collection.

"NASA used dampers to control the motion and our team uploaded special measurement programs to determine how much (of the antenna) was chipped off," says Reinisch. "Then we adjusted for the incoming data."

IMAGE, originally funded for two years, is already in its third year and NASA has just awarded a three-year extension.

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Space Weather in Print

Dr. Paul Song, associate director of the Center for Atmospheric Research and associate professor in the Environmental, Earth and Atmospheric Science Department, is an editor of the new volume *Space Weather*,

published by the American Geophysical Union (AGU) in its Geophysical Monograph Series.

In this age of satellite and other high-tech communications, space weather has a significant impact

on human activities. Space storms can damage or destroy satellites, blow out transformers in large power grids and disrupt radio communications.

Space weather forecasting is a challenge, as scientists are scrambling to collect data and interpret the physics of solar events.

These events include coronal mass ejections (CMEs)—sudden, violent releases of gas and magnetic fields ejecting an immense cloud of material from the surface that can weigh one billion tons and accelerate to millions of miles per hour. Solar flares are intense temporary bursts of energy. One to four days after a flare or CME occurs, a slower cloud of solar material and magnetic fields reaches Earth, buffeting the magnetosphere and resulting in a geomagnetic storm. And proton events are waves of charged particles that can reach earth 30 minutes after a solar flare's peak.

Information on space weather and space weather forecasts are available from the Space Environment Center of the National Oceanic and Atmospheric Administration (www.sec.noaa.gov). Real-time optical images of solar activity can be found at <http://lasco-www.nrl.navy.mil>.

—SS



Cisco Systems Donates \$250K in Equipment to Computer Engineering

A \$263,000 equipment contribution from Cisco Systems will be the cornerstone of a new high-speed networking laboratory for the Electrical and Computer Engineering Department. Cisco, the worldwide leader in networking for the Internet, donated five of their Catalyst 8540 Campus Switching/Routing products. The almost new equipment has gigabit capabilities and is scalable.

According to Dalila Megherbi, assoc. professor in electrical and computer engineering and director of the new Center for Man/Machine Intelligence, Networking and Distributed Systems (CMINDS), the equipment will be used to support three primarily graduate-level courses in high-speed networks and network design in addition to being used for research at CMINDS.

"This is the type of gift that benefits the program and gives us an edge," says Megherbi. "Having a lab component with actual equipment that the University wouldn't have been able to afford otherwise will give students hands-on experience that sets our program apart."

The skills students will gain from this equipment are "important to the high tech industry because of the shortage of high tech professionals in the workforce that are able to help companies build next generation network technology," says Mike D'Allesandro, a major account manager at Cisco.

Students will be able to build, design and troubleshoot enterprise campus networks. On the research side, the equipment can be used as a comparison and testing facility and, hopefully, create other research directions.

"Cisco's equipment donation will help to support the University's belief of educating students in real problems so they can create real solutions in the classroom and in the workplace," says Krishna Vedula, dean of the College of Engineering. "Having relationships with companies like Cisco benefits our students in countless ways."

The department is in the process of allocating space for a new laboratory, likely in Ball Hall. Megherbi points out that the donation really gives visibility to the newly approved computer engineering degree program.

"It's a big boost for the program to have this equipment when the program isn't even a year old," says Megherbi.

University Family and Friends Flock to Fall Festival

The University community came together earlier this month to renew acquaintances, cheer on the River Hawks and treat their children to a family fair.

These were just a handful of the activities offered to the hundreds of University alumni, faculty, staff and friends who flocked to the fourth annual UMass Lowell Fall Festival weekend on Oct. 4 and 5.

Diane Earl, director of alumni relations, describes the weekend as a "great success," especially since the weather cooperated with unseasonably warm temperatures.

"All the events were well attended," Earl says. "This was the best Fall Festival the University has ever had."

The Family Day delighted visitors of all ages with its craft fair, food festival, old-time photos, caricature artist, pony rides and live performances. Sports enthusiasts also had opportunities to attend their favorite fall competitions, with home matches held for field hockey, volleyball, soccer, ice hockey, as well as the traditional homecoming football game.

A highlight of the weekend was a celebration for Prof. Dean

Bergeron, who recently retired after nearly 30 years of service and was roasted and toasted to raise money for the Dennberg Fund—which provides awards for students who pursue innovative and creative projects in the social sciences.

The festivities also included the Francis Cabot Lowell Awards Dinner, where the accomplishments of alumni from each of the University's individual colleges, as well as faculty and staff, were honored. Other activities included reunion events for 25th, 40th and 50th anniversary classes, a homecoming luncheon and a Merrimack River canal tour.



▲ Alumna Mary Jo Leahey, '37, was greeted by Chancellor William T. Hogan at the Golden Alumni Luncheon during Fall Festival weekend. Nearly 100 alumni, who were graduated at least 50 years ago, attended the gathering.

TURI's Community Grant Recipients Celebrated at State House Ceremony

State senators and representatives joined the Toxics Use Reduction Institute (TURI) in congratulating the recipients of the 2002 Toxics Use Reduction Networking (TURN) grants on their final projects. Six organizations received funding this year, focusing on new areas such as food service, as well as building on past projects in integrated pest management.

Organizations are encouraged to build partnerships with other community groups to educate the



▲ Toxics Use Reduction Networking (TURN) grantee the Lexington Health Department developed a set of guidelines on toxics use reduction in food service. Dr. Ken Geiser, director, TURI, and Rep. Jay Kaufman congratulate Beverly Anderson, health director of Lexington, and Meghan Keaney, doctoral candidate from Boston University's School of Public Health who assisted Anderson with the project, at the State House ceremony.



▲ Sen. Pamela Resor; Eileen Gunn, program coordinator, Toxics Use Reduction Institute (TURI); and Sen. Susan Tucker listen to Toxics Use Reduction Networking (TURN) grantees present their projects at the annual final ceremony at the State House. Each year TURI sponsors community-based toxics use reduction projects through the TURN grants.

community about toxic hazards or proactively reduce toxics by adopting a toxics use reduction plan.

"You can't fool mother nature," Sen. Susan Tucker said in her remarks. "The only solution is to reduce the amount of toxins."

Sen. Pamela Resor, who also spoke at the event, also spoke highly of the program. "We must work together at the local level to help make the environment healthier for our children."

Lab Dedicated to Joe Dorsey

The Dr. Joseph Dorsey Cardiopulmonary Laboratory of the Physical Therapy Department was dedicated recently to commemorate the pivotal role played by Dorsey in the development of UMass Lowell's physical therapy program.

Dorsey, who retired last spring, joined the UMass Lowell faculty in 1976, chairing the department of physical therapy from its inception through the addition this spring of a doctoral program. Dr. Susan O'Sullivan has replaced Dorsey as chair of the department.

The third-floor lab in Weed Hall will be maintained with an endowment fund. Launched at the time of his retirement, the fund has received contributions from approximately 175 alumni, faculty, staff and friends. The dedication ceremony was attended by some of the hundreds of alumni who have gone through the exercise

physiology and physical therapy programs under Dorsey's department chairmanship.



▲ Gathered for the dedication of the Dr. Joseph A. Dorsey Cardiopulmonary Laboratory in early October were, from left, Dr. Susan O'Sullivan, chair of the Physical Therapy Department; Dorsey; and Dr. Janice M. Stecchi, dean of the College of Health Professions.



McCarthy Hosts Meeting of NEDO International Research Team

▲ An international research team working on the development of highly biodegradable lactic acid copolymers that could be a useful alternative to present plastics met recently on the Lowell campus, sponsored by the New Energy and Industrial Technology Development Organization (NEDO). NEDO, a Japanese government agency, has been funding international joint research in the areas of materials, energy and international standard development since 1988. Team members included, from left, David Kaplan, Tufts University; Stephen McCarthy, UMass Lowell; Philippe Lecomte, University of Liege, Belgium; team coordinator Hajime Yasuda, Hiroshima University, Japan; and Yuushou Nakayama and Hiroyuki Shirahama, Hiroshima University.

Craig Assesses Campus Experiences of Gay Students and Staff

Former graduate student Lisa Craig, community psychology '02, presented the results of her thesis at the kick-off event for "Coming Out/Coming Together Week" on campus. Her report, "Assessment and Analysis of Campus Climate for Gay, Lesbian, Bisexual and Transgendered People at the University of Massachusetts Lowell," resulted in a mix of findings regarding the campus atmosphere.

Craig interviewed numerous students and staff people about their experiences at the University relative to their sexual orientation. Many reported that they felt more comfortable than at their high schools or in other work settings. However, members of the gay and lesbian student organization, Spectrum, indicated that they experienced some resentment when they went from a largely social organization in the early '90s to hosting larger public events in recent years.

Joining Craig as discussants were Prof. Anne Mulvey, who facilitated the discussion; Jane Worthley, asst. director of Academic



▲ Prof. Anne Mulvey, left, director of the Center for Diversity and Pluralism, served as facilitator for a discussion of Lisa Craig's graduate thesis on life at UMass Lowell for gay, lesbian, bisexual and transgendered people. Craig, right, presented her paper to open this year's "Coming Out/Coming Together Week" at the University.

Services and Administration; Sarah Hodgdon, Spectrum treasurer; Benjamin Ledwell, Spectrum member; Brenda Evans, assoc. director of Student Activities; and Rhoda Trietsch, Spectrum advisor and assoc. director of the Counseling Center.

The presentation was sponsored by the Community and Social Psychology Graduate Program, the Psychology Dept., the Center for Diversity and Pluralism, the Center for Women and Work, Spectrum and Student Activities.

Women & Work Senior Associates Don New Hats

Meg Bond, psychology professor and director of the Center for Women and Work, announced that the center will now have three senior associates, Prof. Emeritus Jean Pyle and Prof. Paul Rayman, both of Regional Economic and Social Development, and Prof. Laura Punnett of Work Environment, at a reception in October.

Bond says, as senior associates, the three will work with the CWW to link students to their individual projects, and will meet regularly to divine a shared agenda for research projects and activities.

In addition, the CWW will soon have a new home in the lower floor of Coburn Hall. For more information, contact Prof. Bond at ext. 3971.



▲ Prof. Emeritus Jean Pyle and Prof. Paul Rayman, both of Regional Economic And Social Environment, Prof. Meg Bond, psychology, and Prof. Laura Punnett, Work Environment, left to right, participated in a ceremonial "changing of the hats" where each were named to new positions within the Center for Women and Work.

Peirce Warns New England States to Work Together

The problem with New England is that it takes its own pre-eminence in education and high tech for granted. It not only lacks a region-wide strategy for competing in an ever-globalizing economy, it's not even engaging in the debate.

So says Neal Peirce, chairman of The Citistates Group, a network of journalists and other professionals committed to competitive, equitable and sustainable metropolitan regions.

"No region of the globe should be better prepared for the 21st century," says Peirce.

Peirce was on campus in September as a guest speaker for the Fall Seminar series presented by the Dept. of Regional Economic and Social Development (RESO) and the Center for Industrial Competitiveness (CIC). He is recognized as possibly the fore-

most writer among American journalists on metropolitan regions and their political and economic dynamics, as well as their emerging national and global roles.

Among the reasons Peirce sees for New England's lack of preparedness for the future is its highly decentralized planning for land use. He attributes this to an essential distrust among and within municipalities of regional planning.

Peirce also blames the anemic spending of the New England states on public higher education. As a group, the six states are at the very bottom nationally in per capita spending on its institutions of higher learning.

Peirce is a nationally recognized source on state and local government themes, appearing on programs such as "Meet the Press" and "Today."

His career has culminated in the writing of numerous books and articles in the area. In the spring, he completed a reconnaissance report, "A Strategic New England."

The seminar was jointly sponsored by RESO, CIC and the Center for Family, Work, & Community. If you have questions, contact william_mass@uml.edu.



▲ Neal Peirce, guest speaker in the Fall Seminar Series, left, talks with Prof. Bill Mass, RESO/CIC, the series coordinator, before addressing an audience of faculty, staff and students this September. Peirce, chairman of The Citistates Group, claims New England is ill-prepared for the 21st century.

Commonwealth Unveils Swift Report Across the Campuses



▲ Prof. Bob Farrant, regional economic and social development, left, facilitated a discussion following the release of Gov. Swift's statewide economic report, "Toward a New Prosperity: Building Regional Competitiveness Across the Commonwealth." Farrant, who contributed to the report, was joined by Robert Halpern, Director of the Merrimack Valley Economic Development Council, and Prof. Steve McCarthy, plastics engineering. Swift's report outlined six recommendations she will make to the next governor to promote the economic health of Massachusetts.

Assaults Aggravating Officials in Franklin County

Officials in the Franklin County Sheriff's Office in western Massachusetts are trying to figure something out. They want to know why, in this bucolic region at the base of the Berkshires, the number of aggravated physical assaults has risen 53 percent in the past decade. They also want to know why the rate of violent crimes is seven times that of comparable areas in Massachusetts and the nation during the same period.

Officials learned the extent of these problems through a just-released report conducted by UMass Lowell Profs. Eve Buzawa and the late Gerald Hotaling of criminal justice. They were brought in to collect data measuring the scope of assaults within the jurisdiction of the Orange District Courts. The communities of Athol and Orange provided most of the information.

"Assault: The Nature, Scope and Response to Assault Victimization in

Athol and Orange," was presented recently to a public meeting of the North Quabbin Community Coalition in Athol.

Over two years, Buzawa and Hotaling coded more than 170,000 pieces of information, drawn from over 1,600 incidents. All manner of assaults were included, as well as direct and indirect threats of harm that placed a person in a state of fear.

Buzawa said they were especially interested in the responses of the victims regarding their perspectives on the incidents, the offenders, the interventions received and their view of the legal outcomes.

The report included many alarming findings. For example, an increasing number of sexual assaults (65 percent) are committed by acquaintances of the victims, with 85 percent of those involving child victims. Only 9.2 percent of physical assaults are committed by strangers. Children witness 18 percent of all physical

assaults, which may have unknown, long-term consequences on their behavior. And victims' rate of school suspension is six to nine times higher than national estimates, although it is unclear how each factor affects the other.

According to Buzawa, poverty, unemployment and learning disabilities are among the likely causes of the increased figures. Offenders are also more likely to have been assault victims themselves. At the same time, police departments, social service and mental health agencies, and shelters are under an increased level of stress due to greater demand and a lessening of resources.

While these results paint a dour picture, there were some positive findings to note.

"Most victims found the criminal justice system in these towns to be highly responsive to their needs," said Buzawa. Indeed, she has observed that representatives from

all sectors including courts, schools and police are highly dedicated to solving this problem.

Further, most victims preferred intervention to incarceration for the offender, especially when they were acquaintances. The number, while somewhat less, was also significant for those who did not know the attacker.

Buzawa hopes the report will prompt further examinations of the causes of the situation. Such information could also arm these communities with the facts they need to develop strategies for dealing with the issues. It will also help them to attain funding needed to sustain lasting intervention programs.

The study was funded by the U.S. Department of Justice COPS Office and secured by the Franklin County Sheriff's Office.

Students Motivated to Work Harder at Career Services Offerings

While the sagging economy has affected job market opportunities, it also has motivated undergraduates and graduates alike to work harder at honing their job-hunting skills.

"Because everyone is aware of how tough things are out there, students are paying more attention to their career development process," says Pat Yates, director of Career Services.

"We find more students and alumni coming in to learn life skills in terms of how to present themselves, how to handle interviews and how to prepare their paperwork. They're thinking about making informed choices.

"The good news is that they will be better prepared when the economy turns around," Yates says. "From our perspective as career developers, it's a good thing that they're paying closer attention to these important details."

Another bright spot, she adds, is the outlook for health profession majors.

"Because everyone is aware of how tough things are out there, students are paying more attention to their career development process"

Pat Yates

"Health profession graduates are in greater demand today," says Yates. "It seems that when the technology market is down, health is up."

The slower economy also is affecting the way a number of businesses recruit new hires. In order to reduce expenses, many companies are opting to conduct on-site job fairs instead of traveling to on-campus fairs as they have in the past.



Teaching Reading Is More Than Fundamentals

▲ Reading teachers are "the people you miss when they're not in the school," according to Graduate School of Education (GSE) Asst. Prof. Judith Davidson. Her new book, *Living Reading: Exploring the Lives of Reading Teachers*, published by Peter Lang, looks closely at these specialists and what their national association, the International Reading Association, offers them. Davidson, left, signed copies of her book recently at the Lowell Barnes and Noble bookstore. Joining her are, from left, are Vasconcelos and Patty Guziejka, former students of Davidson's and Eileen Skovholt's, right. The two taught Practitioner Action Research, a course in the GSE master's program designed specifically for Lowell Public School teachers. Vasconcelos, Guziejka and Skovholt work in the Lowell Public School Department's central office.

Memorial Scholarship Established

Accounting giant PriceWaterhouseCoopers has donated \$125,000 in memory of Brian Kinney, a '95 graduate who was a passenger on United Flight 1756the second plane to hit the World Trade Center towers on September 11.

The endowment establishes a scholarship in Kinney's name, which will be awarded annually to two accounting majors in their junior or senior year on the basis of merit and need.

Before his death, Kinney was manager of Global Risk Management Solutions with the Boston office of PriceWaterhouseCoopers.

Hodgman Becomes First Foley Professor at UMass Lowell

John Hodgman, the former president and chief executive officer of the Massachusetts Technology Development Corporation (MTDC), has been named the first Howard P. Foley Professor.



▲ John Hodgman, the new Foley Professor at UMass Lowell, will work with the Engineering in Mass Collaborative to increase student numbers in science and engineering, by identifying best practices at the high school and middle school levels.

The professorship, which carries no teaching duties and is part time, was endowed by the Mass High Tech Council and named in honor of Foley upon his retirement. UMass President William Bulger announced the professorship at the council's annual meeting.

Hodgman was chosen by the executive committee of the Engineering in Mass Collaborative, an organization founded by Dean Krishna Vedula, Francis College of Engineering, to increase the number of students in science and engineering careers.

"That has to be attacked at the high school and middle school levels, where students really start to lose interest," said Vedula. "The Engineering in Mass Collaborative was formed to determine the best practices in that direction and the Foley Professor will act as technical coordinator."

Hodgman directed the MTDC from 1984 until last year. The MTDC is a state-chartered venture capital firm established to provide seed money to early-stage technology companies in the state. He was also

active in education and career development, helping to establish the Teachers in Industry Program and serving on the board of Jobs for Youth, Inc.

Hodgman is looking forward to his new position in which he will coordinate efforts by business, academia and government to promote mathematics and engineering in schools.

"I think this is terrific and I feel very honored to be the first selected," Hodgman said. "Since I've retired from 33 years in active management, I have the time necessary to invest in a project like this. I've always been active in a number of efforts in education and job training and development with the MTDC. Fortunately, this isn't rocket science. I'm going to take proven approaches to this issue and see how they may best be brought into the picture."

Vedula praised Hodgman's years of dedication and activity, and said, "John has the experience and contacts needed for this type of job."

Promotions & Appointments

Promotions

Richard M. Conley, ISIS/empac project manager in Information Technology, from assistant director of Human Resources.

Sherrie L. Dumais, assistant budget analyst in the Budget Office, from accountant in General Accounting.

Appointments

Gary Gardner, director of men and women's cross country track and field in Athletics, from head coach of cross country and track and field at the U.S. Merchant Marine Academy.

Jennifer Golden, institutional security officer in University Police, from clerk at UPS.

Note Worthy

Chath pierSath, associate manager for the Gear Up program at the Center for Family, Work, and Community, is one of several Cambodian-born artists whose work is included this fall in the exhibition "The Spirit of Cambodia: A Tribute" at Providence College. Also included in the exhibit are painters Yary Livan and Domnang Pin of Lowell.

Paul Marion, community relations liaison in the Communications and Marketing Department, has been elected a member of the board of directors of The Greeley Foundation.

The Dana Greeley Foundation for Peace and Justice, Inc., is a publicly supported charitable foundation established in 1985 to honor the life and work of Rev. Dana McLean Greeley, a Unitarian Universalist minister and international peace activist.

Wild Blessings: The Poetry of Lucille Clifton, by **Hilary Holladay**, associate professor of American literature, will be published next year by Louisiana State University Press. She also has an article, "Black Names in White Space: Lucille Clifton's South," in the current issue of *The Southern Literary Journal*.

Holladay's poems have been published in recent issues of *Literature and Belief* and *The Larcom Review*. She gave a poetry reading at the Pepperell Library last week.

Jacqueline Moloney, dean of Continuing Studies and Corporate Education, has been named a member of the Distance Education Review Committee of the New England Association of Schools and Colleges (NEASC).

The committee will review distance education programs seeking accreditation on 17 New England campuses.

Also, as the recipient of a Sloan Foundation Grant, Moloney was invited to participate in a workshop that included the most successful online education providers in the country. She also made a presentation to a Greater New York regional conference on behalf of Sloan to share lessons learned from the Lowell project with representatives of other campuses.

Kim Shares His Gifts With Management



◀ Finance Prof. Sangphil Kim, left, and Dean Kathryn Verreault express their thanks to Ik-Jeon Choi for his \$10,000 gift to the College of Management. Kim has been working as a consultant to Choi's South Korean company, LJ Tech, which is a key supplier of plastics to Hyundai and Kia automobiles. Instead of compensation, Kim requested that Choi show his appreciation by making a contribution to the college.

Goldstein Takes Her Art One Day At a Time



◀ Works by New Hampshire artist Bonney Goldstein are on exhibit in the University Gallery in the McGauvran Student Center through Nov. 6. The mixed media exhibit, "One Day At a Time," chronicles a year in the life of the artist, much as a journal would for a writer. For information, call Michele Auger, gallery coordinator, ext. 3491.

Cambodian Prince Visits University

Hundreds from the region's Cambodian community gathered at Cumnock Hall last month to honor a visiting prince from their native land.

The University hosted a visit from His Royal Highness Norodom Sirivudh, who welcomed the opportunity to visit the American city with the second-largest number of natives from his country. Provost Robert Wagner offered greetings on behalf of the administration to the prince, as well as other dignitaries present, including Kol Pheng, secretary general of the Cambodian National Assembly; Lowell Mayor Rita Mercier; and City Councilors Rithy Uong and Armand Mercier. The prince noted that Uong is the first

Cambodian native elected to public office in the United States.

Prince Sirivudh, a senior member of the royalist party, spoke to the local Cambodians about political developments in their native country and encouraged support for democracy. He thanked Lowell and its people for welcoming so many Cambodians—some 25,000—to their community.

The Sept. 29th celebration, which was sponsored by the Cambodian American Heritage Association, included Khmer classical dancing by the Angkor Dance troops, dinner and music. The festivities also featured the premiere of the Cambodian film "Raja Bori," which was produced by another member of the royal family.



▲ His Royal Highness Norodom Sirivudh, a Cambodian prince, second from left, recently attended a celebration in his honor at the University with his wife, Neak Moneang Pok Veasna Sirivudh, left. The couple was greeted by Provost Robert Wagner and Lowell Mayor Rita Mercier.

Shutkin Describes the Commonwealth That Could Be



◀ William Shutkin, left, professor of urban studies and planning at MIT, addressed a recent Fall Seminar hosted by Prof. Bill Mass of regional economic and social development. Shutkin, who is president of New Ecology, Inc., said his organization is trying to show public and private agencies that there is a social and economic demand for environmentally enlightened land development. The seminar was sponsored by the Center for Industrial Competitiveness, RESD and the Lowell Center for Sustainable Development.

Francis Cabot Lowell Alumni Awards 2002

AUMass Lowell faculty member and a retired staff member were honored at the recent Francis Cabot Lowell Awards Dinner at the Wyndham Andover Hotel.

Prof. Kenneth Geiser, director of the Toxics Use Reduction Institute and co-director of the University's Lowell Center for Sustainable Production, received the Faculty Award.



▲ Prof. Kenneth Geiser

Geiser serves on numerous committees and agencies as an internationally recognized expert on environmental law and policy, clean production and sustainable development.



▲ Lan T. Pho

Lan T. Pho, retired director of the Center for Diversity and Pluralism at UMass Lowell from its founding in 1994 until 2002, received the Staff Award.

Pho has received a number of community awards for her work, including "Woman of the Year" from the United Nations Development Programs and "Outstanding Asian American" from the Massachusetts 2000 Governor's Commission.

Other recipients include Lorenzo J. Cabrera, '94, Young Alumni Award for Sciences; George C. Eliades, Honorary Alumni Award; Thomas A. Golden, Jr., '94, '02 MBA, Young Alumni Award for Management; Sheila L. Kirschbaum, '76, Alumni Award for Education; Anita M. Moeller, '88, Alumni Award for Fine Arts, Humanities and Social Sciences; Michael J. Morin, '76, Alumni Award for Sciences; Gary M. Mucica, '71, Alumni Award for Management; Catherine Y. Read, '01 Ph.D., Alumni Award for Health Professions; Robert H. Sloan, '50, Alumni Award for Engineering; Joseph W. Spadano, '92 Ed.M., '96 Ed.D., Young Alumni Award for Education; Garrett S. Thurston, '90 MS, '95 D.Eng., Young Alumni Award for Engineering; and Anne M. Veilleux, '85, Alumni Award for Health Professions.

Francis Cabot Lowell introduced America to the first workable power loom and fully integrated textile factory, and founded the Boston Manufacturing Company. After his death, Boston Manufacturing moved from Waltham to a farming community on the banks of the Merrimack River, which would later become the City of Lowell.



COHP Honors Student Achievements

▲ Dean Janice Stecchi of the College of Health Professionals, left, presided recently at a reception honoring scholarship winners. The honorees were, from left, undergraduates Jenna Smith, the Hoff Scholarship; Emily Law, the Dean's Award; Gilda Mark, the Madonna Schromm Memorial Scholarship and the Patricia A. Tyra Scholarship; Dawn Summerville, the Saints Memorial Hospital Scholarship; and graduate nursing major Peggy Dorson, the May Futrell Scholarship.

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The University of Massachusetts Lowell is an Equal Opportunity/Affirmative Action, Title IX, H/V, ADA 1990 Employer.

Calendar of Events

Tuesday, Dec. 3

Performance, Faculty Performance Series, Small Jazz Ensemble, Walter Platt, director, 7:30 p.m., Durgin Concert Hall. For information, call (978) 934-3850.

Performance, STARTS (Student and Teacher Arts) program, "David Parker: the Pied Piper of Sign," a musical performance with singing and sign language for school field trips, grades K-3, 9:30 and 11:00 a.m., Durgin Hall. Tickets \$5. For information and reservations, call the STARTS hotline (978) 934-4452.

Wednesday, Dec. 4

Performance, Faculty Performance Series, Chamber Orchestra, Kay George Roberts, director, 7:30 p.m., Fisher Recital Hall. For information, call (978) 934-3850.

Performance, STARTS (Student and Teacher Arts) program, "David Parker: the Pied Piper of Sign," singing and sign language for school field trips, grades K-3, 9:30 and 11:00 a.m., Durgin Hall.

Tickets \$5. For information and reservations, call the STARTS hotline (978) 934-4452.

Seminar, guest speaker Dr. Harvey Tananbaum, director of the Chandra X-Ray Observatory, Harvard-Smithsonian Center for Astrophysics, 4 ñ 5 p.m., Olsen 503. For information, call (978) 934-2876.

Thursday, Dec. 5

Performance, Faculty Performance Series, Studio Orchestra, Walter Platt, director, 7:30 p.m., Durgin Concert Hall.

Thursday – Saturday, Dec. 5 – 8

Performance, Shakespeare's "Much Ado About Nothing," presented by student Off-Broadway Players, 8 p.m., Mahoney Auditorium. For information contact (978) 934-5024 or visit www.uml.edu/student-groups/offbroadway.

Friday, Dec. 6

Symposium, Sukant Tripathy Memorial, speakers include Mark Green, Polytechnic University; Michael Rubner, MIT; Warren Herman, University of Maryland; Vaman Naik, University of Michigan; Anthony Guiseppe-Eli, Virginia Polytech, Mrinal Thakur, Auburn University, Russell Gaudiana, Konarka Technologies, 8:30 a.m. - 4:30 p.m., Wannalancit Conference Room, register by Nov. 23. For information, call (978) 934-3695.

Performance, STARTS (Student and Teacher Arts) program, "Sarah, Plain and Tall," performing arts for school field trips, grades 3-6, 9:30 and 11 a.m., Durgin Hall. Tickets \$5. For information and reservations, call the STARTS hotline (978) 934-4452.

Hockey, vs. St. Lawrence, 7 p.m., Tsongas Arena. For information, call (978) 934-HAWK.

Saturday, Dec. 7

Men's Basketball, vs. Bentley College, 4 p.m., Costello Gym. For information, call (978) 934-HAWK Athletics.

Hockey, vs. Clarkson, 7 p.m., Tsongas Arena. For information, call (978) 934-HAWK.

Sunday, Dec. 8

Performance, Faculty Performance Series, Seasonal Music of the Combined Choral Groups, Christopher McGahan, director, 8 p.m., Durgin Concert Hall. For information, call (978) 934-3850.

Monday, Dec. 9

Performance, Faculty Performance Series, Percussion Ensemble, Jeffrey Fischer, director, 7:30 p.m., Fisher Recital Hall. For information, call (978) 934-3850.

Wednesday, Dec. 11

Open Meeting Hours, Opportunity for faculty, staff and students to meet with William T. Hogan, Chancellor, staff: 2 - 3 p.m., students: 3 - 4 p.m., faculty: 4 - 5 p.m., Trustees' Room, Cumnock Hall. For information, call the Chancellor's Office (978) 934-2201.

Performance, Faculty Performance Series, Concert Band, Daniel Lutz, director, 7:30 p.m., Durgin Concert Hall. For information, call (978) 934-3850.

Friday, Dec. 13

Men's Basketball, vs. Adelphi University, 7 p.m., Costello Gym. For information, call (978) 934-HAWK Athletics.

Research Notes

Avitabile, Peter
\$5,000
Spectral Dynamics
Technical Support for Basic and Advanced Model Analysis Activities

Brown, Gilbert
\$43,000
U.S. Department of Energy
DOE/Industry Matching Grant Program

Bruell, Clifford
\$6,149
Xpert Design and Diagnostics(XDD),LLC
Chemical Oxidation of Manufactured Gas Plant (MGP) Residuals in Soils

Cassel, Scott
\$30,000
Merck Family Fund
Paint Product Stewardship Stakeholder Dialogue

Geiser, Kenneth
\$86,839
Department of Environmental Protection
Municipal Waste Combustors and Dioxin Emissions Study and Market Assessment and Evaluation of State Paint Collection Programs

Geiser, Kenneth
\$48,160
The Maine Department of Environmental Protection
Review of Mercury Use in Consumer Products

McCarthy, Stephen
\$20,000
Claude E. Cooke, Jr.
Biodegradable Polymers for Oil Field Applications

Mead, Joey and Schott, Nick
\$18,000
US Army Research Laboratory
Process Optimization of Nano-Modified Thermoplastic Elastomeric(TPE) Binders for Energetic Material Applications

Moses, Stephen
\$5,000
The Commonwealth of Massachusetts
Tobacco Control Innovative Smoking Interventions

Prasad, Kanti
\$15,000
Skyworks Solutions, Inc.
Reliability Improvement and Yield Enhancement of GaAs/Si Chips through In-situ Monitoring and Innovative Process Characterization Techniques

Punnett, Laura
\$25,067.25
Centers for Disease Control and Prevention/NIOSH
CDC/IPA

Reinisch, Bodo and Sales, Gary
\$13,354
Department of the Air Force
Electrodynamics of the Ionosphere by Digital Ion sondes and Other HF Techniques

Shea, Thomas
\$5,000
National Science Foundation
Axonal Transport and Cytoskeletal Incorporation of Neurofilaments

Sung, Changmo
\$15,000
Konarka, Inc.
TEM Analysis of Photovoltaic Samples

Vedula, Krishna
\$325,149
National Science Foundation
UMass Lowell DESIGN-CAMP's After School

Calendar of Events

Friday, Nov. 1

Hockey, vs. Union College, 7 p.m., Tsongas Arena. For information, call (978) 934-HAWK.

Performance, STARTS program, "Lindbergh's Ocean Flight," performing arts for grades 3-6, 9:30 and 11 a.m., Durgin Hall. Tickets \$5. For information and reservations, call the STARTS hotline (978) 934-4452.

Saturday, Nov. 2

Football, vs. Merrimack College, 1 p.m., Cushing Field. For information, call (978) 934-HAWK.

Monday, Nov. 4

Lecture, "Third-Tier Cities: Adjusting to the New Economy," Beth Siegel, Mount Auburn Associates, noon, O'Leary Library, Room M, fifth floor. For information, call CIC/RESA (978) 934-2720 or 2900.

Thursday, Nov. 7

Women's Basketball, vs. Bentley, 2 p.m., Costello Gym. For information, call (978) 934-HAWK.

Thursday – Saturday, Nov. 7 – 9

Conference, Sixth Annual CITA Conference, "Approaches to Sustainable Regional Development: Supporting Public Health and a Healthy Society," Wannalancit Mills Conference Room, reception Lowell Boott Mills. For information, visit www.uml.edu/com/cita.

Friday, Nov. 8

Performance, STARTS (Student and Teacher Arts) program, "Mur Mur," performing arts for school field trips, grades 3-6, 9:30 and 11 a.m., Durgin Hall. Tickets \$5. For information and reservations, call the STARTS hotline (978) 934-4452.

Saturday, Nov. 9

Hockey, vs. University of New Hampshire, 7 p.m., Tsongas Arena. For information, call (978) 934-HAWK.

Tuesday, Nov. 12

Lecture, "Globalization, Resource Wars and Petro Politics," Prof. Michael Klare, Hampshire College, noon, O'Leary Library, room M, fifth floor. For information, call CIC/RESA (978) 934-2720 or 2900.

Workshop, "Riding the Health Care Rollercoaster: Personal & Professional Response to Organizational Change," the PHASE project's lecture/workshop on stress in the health care setting, guest speaker Nancy Mongeau, RN, M.Ed., M.S.W., 4 - 6 p.m., Coburn 205. For information, contact (978) 934-2908 or Perry_Honeychurch@uml.edu.

Wednesday, Nov. 13

Open Meeting Hours, Opportunity for faculty, staff and students to meet with William T. Hogan, Chancellor, staff: 2 - 3 p.m., students: 3 - 4 p.m., faculty: 4 - 5 p.m., Trustees' Room, Cumnock Hall. For information, call the Chancellor's Office (978) 934-2201.

Exhibit Reception, "Dangling Participles," manipulated texts and projected abstract forms examining the role of mother within a culture, 2 to 4 p.m., University Gallery, McGauvran Student Center. Exhibit runs through Dec. 11. For information, call (978) 934-3491.

Film & Discussion, "A Hero for Daisy," Mary Mazzio, guest speaker and president of independent film production company 50 Eggs Inc., www.aherofordaisy.com, 7 p.m. - 9 p.m., O'Leary Library 222. For information, contact Jeffrey_Gerson@uml.edu.

Thursday, Nov. 14

Lecture, Tripathy-Endowed Lectureship, "Electronic Polymers: New Materials for the 21st Century," Prof. Alan G. MacDiarmid, University of Pennsylvania, Nobel laureate in chemistry, 3:30 p.m., Alumni Hall. For information, call (978) 934-3695.

Thursday – Saturday, Nov. 14 – 16

Performance, "The Laramie Project," a play about the murder of Matthew Shepard and its aftermath, 8 p.m., Mahoney Auditorium. Suggested donations \$8 general and \$5 student. For information, call (978) 934-3950 or 4335.

Saturday, Nov. 16

Hockey, vs. UMass Amherst, 7 p.m., Tsongas Arena. For information, call (978) 934-HAWK.

Sunday, Nov. 17

Performance, Discovery Series, "Shangri-La Acrobats," 2 and 4 p.m., Durgin Hall. Tickets \$10, group discounts available. For information or tickets, call the Center for the Arts (978) 934-4444.

Monday, Nov. 18

Lecture, "China's Village Democracy Movement: Elections, the Party and Anti-Corruption," Prof. Rich Levy, Salem State College, noon, O'Leary Library, Room M, fifth floor. For information, call CIC/RESA (978) 934-2720 or 2900.

Performance, STARTS program, "The Shangri-la Chinese Acrobats," performing arts for grades 3-6, 9:30 and 11:00 a.m., Durgin Hall. Tickets \$5. For information and reservations, call the STARTS hotline (978) 934-4452.

Presentation, Senior Executive Forum, Gordon Lankton, president and chairman, Nypro, Inc., 1:30 p.m., Kitson 309. For information, call Dean Krishna Vedula's office (978) 934-2571.

Tuesday, Nov. 19

Lecture, Elyse Lemaire (Counseling Center) addresses the question, "If this were the last lecture you would give, what would you say?" noon - 1 p.m., McGauvran 410, lunch provided. For information or to reserve a seat, call Imogene Stulken (978) 934-5014.

Wednesday, Nov. 20

Exhibit Reception, Exhibit for proposals for UMass Lowell Commemorative Public Art Project, 2 to 4 p.m., Dugan Gallery. Exhibit runs through Dec. 11. For information, call (978) 934-3491.

Friday, Nov. 22

Conference, "Shrinking the World, Expanding Horizons," 11th Annual Massachusetts Council for International Education Conference,

keynote speaker: Padraig O'Malley, UMass Boston McCormack Institute, 9:15 a.m. registration, Cumnock auditorium. For information, contact Laurie Tirado (978) 934-2921 or Laurie_Tirado@uml.edu.

Monday, Nov. 25

Lecture, "Building Research Partnerships in Diverse Communities," Prof. Linda Silka, noon, O'Leary Library, Room M, fifth floor. For information, call CIC/RESA (978) 934-2720 or 2900.

Performance, Faculty performance series, Wind Ensemble, David Martins, director, 7:30 p.m., Durgin Concert Hall. For information, call (978) 934-3850.

Sunday, Dec. 1

Men's Basketball, vs. Merrimack College, 4 p.m., Costello Gym. For information, call (978) 934-HAWK Athletics.

Monday, Dec. 2

Lecture, "Regions, Nations, and Globalization," Prof. William Mass, noon, O'Leary Library, Room M, fifth floor. For information, call CIC/RESA (978) 934-2720 or 2900.

Performance, Faculty Performance Series, Mixed Chamber Ensemble, David Martins, director, 7:30 p.m., Fisher Recital Hall. For information, call (978) 934-3850.

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How many DJs and hosts have shows on the campus radio station?

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